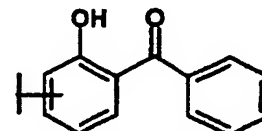Patent claims:

1. A cosmetic composition comprising a conjugate comprising a hyperbranched polymer covalently bonded to at least three UV absorbing chromophores having an UV absorption maximum $\lambda_{max} \geq 270$ nm selected from the group consisting of the moieties represented by general formulae (V-A) to (V-F)
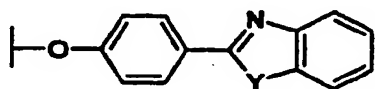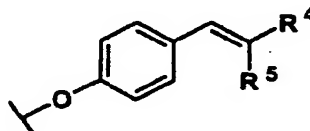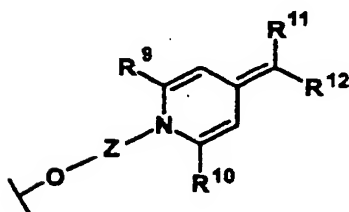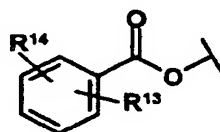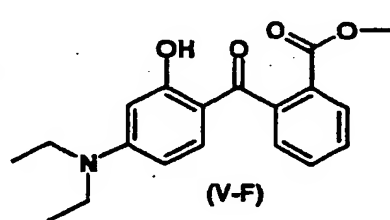

(V-A)   **(V-B)**   **(V-C)**

(V-D)   **(V-E)**   **(V-F)**

wherein

Y is O or NR^3 wherein R^3 is H, C_1-C_6-alkyl or C_2-C_6-alkenyl;

R^4 and R^5 are independently H, C_1-C_6-alkyl, C_2-C_6-alkenyl, CO_2H, CO_2-C_1-C_6-alkyl, or R^4 and R^5 together with the carbon atom to which they are attached form a 6-camphenyl ring;

R^9 and R^{10} are independently H or C_1-C_6-alkyl;

R^{11} and R^{12} are independently H, C_1-C_6-alkyl, NO_2, CO_2-C_1-C_6-alkyl or CN;

Z is C_1-C_6-alkylene, optionally interrupted by 1 to 3 oxygen atoms;

R^{13} and R^{14} are independently H, OR^{15}, $NR^{16}R^{17}$ or C_1-C_6-alkyl; and

R^{15}, R^{16} and R^{17} are independently selected from H and C_1-C_6-alkyl;

and wherein In the above definition the symbol "⊣" denotes the linkage to the hyperbranched polymer;

or a moiety of benzophenone-3, benzophenone-4,2,2',4,4'-tetrahydroxy-benzophenone and 2,2'-dihydroxy-4,4'dimethoxybenzophenone;

and a cosmetically acceptable carrier.

2. Compositions according to claim 1, characterized in that the hyperbranched polymer exhibits an average degree of branching $\geq 25\%$.

2

3. Compositions according to any of the preceding claims, characterized in that the hyperbranched polymer has an average molecular weight M_w within the range of from 500 to 50,000 g mol^{-1}.

4. Compositions according to any of the preceding claims, characterized in that the hyperbranched polymer comprises an average number of 2 to 600 dendritic building blocks.

5. Compositions according to any of the preceding claims, characterized in that the hyperbranched polymer comprises a structure represented by general formula (I)

$$\{[Q]\,(Y^1)_g\}\,(LX)_p\,(Y^2)_h \qquad (I),$$
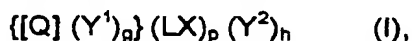
wherein

Y^1 and Y^2 independently represent UV absorbing chromophores;

$\{[Q]\,(Y^1)_g\}$ represents the hyperbranched polymer covalently bonded to g UV absorbing chromophores Y^1;

$(LX)_p$ represents p linker units LX, wherein independently the distal end of each linker unit LX bears a functional group X either being

- covalently bonded to an UV absorbing chromophore Y^2, or

- covalently bonded to a capping group, or

- in its free reactive form,

and wherein the proximal end of each linker unit LX is covalently bonded to the hyperbranched polymer; and
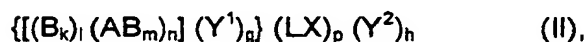
3

wherein

index g is an integer, wherein $0 \leq g \leq 100$;

index h is an integer, wherein $0 \leq h \leq p$; and

index p is an integer, wherein $0 \leq p \leq 100$;

with the proviso that $g + h \geq 3$.

6. Compositions according to claim 5, characterized in that the hyperbranched polymer comprises a structure represented by general formula (II)

$$\{[(B_k)_l \, (AB_m)_n] \, (Y^1)_g\} \, (LX)_p \, (Y^2)_h \qquad (II),$$

wherein

Y^1 and Y^2 are defined as in claim 5;

LX   is defined as in claim 5;

B_k represents a starter unit bearing k functional groups B, wherein independently each functional group B is

- covalently bonded to a functional group A of a building block AB_m, or
- covalently bonded to the proximal end of a linker unit LX, or
- covalently bonded to an UV absorbing chromophore Y^1, or
- covalently bonded to a capping group, or
- in its free reactive form;

$(AB_m)_n$ represents n building blocks AB_m, each bearing a functional group A and m independent functional groups B, wherein independently each functional group A is

- covalently bonded to a functional group B
  - of a further building block AB_m or
  - of the starter unit B_k, or
- covalently bonded to a capping group, or
- in its free reactive form,

and wherein independently each functional group B is

- covalently bonded to a functional group A of a further building block AB_m, or
- covalently bonded to the proximal end of a linker unit LX, or
- covalently bonded to an UV absorbing chromophore Y^1, or
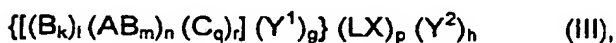- covalently bonded to a capping group, or

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4

-    in its free reactive form;

wherein

index g is defined as in claim 5;

index h is defined as in claim 5;

index k is an integer of from 1 to 6;

index l is 0 or 1;

index m is an integer of from 2 to 4;

index n is an integer of from 3 to 100; and

index p is an integer wherein $0 \leq p \leq n(m-1)+k$.

7.   Compositions according to claim 6, characterized in that in the hyperbranched polymer index l is 1, the starting unit B_k is trimethylolpropane and the building block AB_m is glycidol.

8.   Compositions according to claim 5, characterized in that the hyperbranched polymer comprises a structure represented by general formula (III)

$$\{[(B_k)_l\,(AB_m)_n\,(C_q)_r]\,(Y^1)_g\}\,(LX)_p\,(Y^2)_h \qquad (III),$$

wherein

Y^1 and Y^2 are defined as in claim 5;

LX   is defined as in claim 5;

B_k represents a starter unit bearing k functional groups B, wherein independently each functional group B is

-    covalently bonded to a functional group C

-    of a monomer C_2 or

-    of a building block C_q or

-    covalently bonded to the proximal end of a linker unit LX, or

-    covalently bonded to an UV absorbing chromophore Y^1, or

-    covalently bonded to a capping group, or

-    in its free reactive form;

$(AB_m)_n$ represents n building blocks AB_m, each bearing a functional group A and m independent functional groups B, wherein independently each functional group A is

-    covalently bonded to a functional group C

-    of a monomer C_2 or

-    of a building block $C_{q,}$ or

- covalently bonded to the proximal end of a linker unit LX, or

- covalently bonded to an UV absorbing chromophore Y^1, or

- covalently bonded to a capping group, or

- in its free reactive form;

and wherein independently each functional group B is

- covalently bonded to a functional group C

  - of a monomer C_2 or

  - of a building block C_q, or

- covalently bonded to the proximal end of a linker unit LX, or

- covalently bonded to an UV absorbing chromophore Y^1, or

- covalently bonded to a capping group, or

- in its free reactive form;

$(C_q)_r$ represents

- when index q = 2: r monomers C_2 or

- when index q > 2: r building blocks C_q

  each bearing q functional groups C, wherein independently each functional group C is

- covalently bonded to a functional group A of a building block AB_m, or

- covalently bonded to a functional group B

  - of a building block AB_m or

  - of the starter unit B_k, or

- covalently bonded to the proximal end of a linker unit LX, or

- covalently bonded to an UV absorbing chromophore Y^1, or

- covalently bonded to a capping group, or

- in its free reactive form;

wherein

index g is defined as in claim 5;

index h is defined as in claim 5;

index k is an integer of from 1 to 6;

index I is 0 or 1;

index m is an integer of from 2 to 4;

index n is an integer of from 3 to 100;

index p is an integer wherein $0 \leq p \leq n(m-1) + r(q-1) + k$;

index q is an integer of from 2 to 4; and

index r is an integer wherein $1 \leq r \leq nm/q$.

6

9. Compositions according to claim 8, characterized in the hyperbranched polymer index I is 0, index q is 2, building block AB_m is diisopropanolamine and monomer C_2 is a compound represented by general formula (IV)
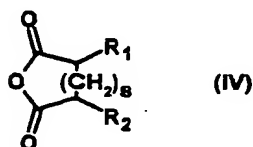
wherein

index s is 0, 1 or 2;

R^1 and R^2 are independently H, linear or branched C_1-C_{18}-alkyl or C_2-C_{18}-alkenyl, or

R^1 and R^2 together with the carbon atoms to which the are attached form a 4 to 7 membered aliphatic or aromatic ring.

10. The composition according to any of claims 5 to 9, characterized in that in the hyperbranched polymer the linker unit LX comprises polyethyleneoxide or polypropyleneoxide.

11. Compositions according to any of claims 5 to 10, characterized in that the hyperbranched polymer comprises 1 to 20 capping groups.

12. Compositions according to claim 11, characterized in that the capping group is a straight or branched chain ether or ester group with 1 to 20 carbon atoms.

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AMENDED SHEET